


## The roughness of sanded wood surfaces

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### Effect of raw material composition of wood plastic composites on surface roughness parameters evaluated with a robust filtering method

L Gurau, N Ayilimis - *Journal of Thermoplastic Composite ...*, 2018 - journals.sagepub.com


This study extensively investigated the surface roughness of injection molded wood plastic composites (WPCs) produced from different amounts of wood flour, polymer matrix, mineral filler, and other additives. A larger range of roughness parameters that used in the previous ...

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### UV-blocking properties of Zn/ZnO coatings on wood deposited by cold plasma spraying at atmospheric pressure

L Wallenhorst, L Gurău, A Gellerich, H Militz... - *Applied Surface ...*, 2018 - Elsevier


In this study, artificial ageing of beech wood coated with Zn/ZnO particles by means of a cold plasma spraying process as well as coating systems including a Zn/ZnO layer and additional conventional sealings were examined. As ascertained by colour measurements, the particle ...

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### Rugosidad de la superficie de madera de *Carpinus betulus* con respecto a la altitud

M Kiaei, R Mosavi Paloj - *Madera y bosques*, 2018 - scielo.org.mx

Hornbeam wood (*Carpinus betulus*) is a native species from Iran and covers 33% of the commercial volume of Iranian woods. Surface quality of solid wood products is one of the most important properties influencing further manufacturing processes such as finishing or ...

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## Filtering the roughness of a sanded wood surface

L Gurau, H Mansfield-Williams, M Irle - Holz als Roh-und Werkstoff, 2006 - Springer

Zusammenfassung Um Formfehler und Welligkeit zu vermeiden ist bei quantitativen Untersuchungen zur Rauheit von geschliffenen Oberflächen eine Filterung der Daten erforderlich. Die Grenzwellenlänge eines Rauheitsfilters legt fest, welche Wellenlängen ...

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## Roughness models for sanded wood surfaces

PL Tan, S Sharif, I Sudin - Wood Science and Technology, 2012 - Springer

Abstract The understanding of the effects of variables is crucial to achieve the desired sanded surface quality at optimum condition. In wood surface evaluation, it is known that anatomies on wood surface could distort the roughness value and cause a ...

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## Separation of processing roughness from anatomical irregularities and fuzziness to evaluate the effect of grit size on sanded European oak

L Gurau, H Mansfield-Williams, M Irle - Forest products journal, 2007 - ccspl.ro

Abstract Sanded wood surfaces contain irregularities due to both the sanding process and the anatomy of the wood specimen. The anatomical roughness, which is independent of machining, must be excluded from any measured data of the surface if the processing ...

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## Form error removal of sanded wood surfaces

L Gurau, H Mansfield-Williams, M Irle... - European Journal of ..., 2009 - Springer

Zusammenfassung Gemäß ISO 3274 können grobe Porenrillen ausgeschaltet werden, indem eine Polynomfunktion an die Rohdaten, das so genannte Gesamtprofil, angepasst wird, um das Primärprofil zu erhalten. Es hat sich gezeigt, dass bei Holzoberflächen die ...

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## The influence of wood anatomy on evaluating the roughness of sanded solid wood

L Gurau, H Mansfield-Williams... - Journal of the Institute of ..., 2005 - maneyonline.com

Abstract Sanded wood surfaces contain irregularities caused by both the sanding process and the anatomy, so the anatomical roughness, which is independent of any machining operation, must be excluded from measurements of surface irregularities if the processing ...

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## Wood machining

JP Davim - 2013 - books.google.com

Wood as an engineering material can be technically defined "as a hygroscopic, orthotropic, biological, and permeable material having extreme chemical diversity and physical complexity with structures, that vary extensively in their shape, size, properties and ...

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## An objective method to measure and evaluate the quality of sanded wood surfaces

L Gurau - The Final Conference Of Cost Action, 2010 - coste53.net

Abstract No agreed guidelines exist in wood surface metrology about how to objectively measure and evaluate the surface quality and existing general standard methods and corresponding software are not usually applicable to wood. This paper presents a review ...

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## The influence of measuring resolution on the subsequent roughness parameters of sanded wood surfaces

L Gurau, H Mansfield-Williams, M Irle - European Journal of Wood and ..., 2013 - Springer

Zusammenfassung In der Literatur gibt es keine Empfehlung, welche Messauflösung bei der Messung von Holzoberflächen verwendet werden soll. Die in der Norm ISO 3274 (1996) angegebenen Anforderungen erscheinen zu streng. Für Holz werden aufgrund seiner ...

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## Warum die Messtechnik an der Holzoberfläche scheitert

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## Using artificial neural networks for modeling surface roughness of wood in machining process

S Tiryaki, A Malkoçoğlu, Ş Özşahin - *Construction and Building Materials*, 2014 - Elsevier

Abstract Surface quality of solid wood is very important for its effective utilization in further manufacturing processes. In this study, the effects of wood species, feed rate, number of cutter, cutting depth, wood zone (earlywood-latewood) and grain size of abrasives on ...

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## THE INFLUENCE OF EARLYWOOD AND LATEWOOD UPON THE PROCESSING ROUGHNESS PARAMETERS AT SANDING

L GURĂU - Pro Ligno, 2014 - proligno.ro

Abstract: Sanded wood surfaces contain irregularities caused by both the sanding process and the anatomy, so the anatomical roughness, which is independent of any machining operation, must be excluded from measurements of surface irregularities if the processing ...

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## ANALYSIS OF ROUGHNESS OF SANDED OAK AND BEECH SURFACES

L GURĂU - Pro Ligno, 2013 - proligno.ro

Abstract: Sanded wood surfaces contain irregularities caused by both the sanding process and the anatomy, so the anatomical roughness, which is independent of any machining operation, must be excluded from measurements of surface irregularities if the processing ...

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## Separation of processing roughness from anatomical irregularities and fuzziness to evaluate the effect of grit size on sanded European oak

H Mansfield-Williams - FOREST PRODUCTS JOURNAL - ccspl.ro

Abstract Sanded wood surfaces contain irregularities due to both the sanding process and the anatomy of the wood specimen. The anatomical roughness, which is independent of machining, must be excluded from any measured data of the surface if the processing ...

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## Evaluation of Sanded Wood Surface Roughness with Anatomical Filters

S Sharif, PL Tan - tatiuc.edu.my

Abstract—Sanded wood surface is characterized not only by processing irregularities, but also anatomical irregularities that are inherent from heterogeneous wood structure. The anatomical features could distort the roughness value measured with surface profilometer ...

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## QUALITY EVALUATION OF SANDED FIR BRANCH PANELS WITH LONGITUDINAL

L GURAU, M CIONCA, C TIMAR, A OLARESCU - Annals of DAAAM & Proceedings, 2009

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## Research on Power Consumption for Sanding Process with Abrasive Brushes to Solid Spruce and MDF Panels

MR Loredana, BL Anne-Marie - Procedia Engineering, 2015 - Elsevier

Abstract The objective of the experimental research presented in this paper was to analyze the relationship between the cutting power and the roughness parameters characterizing the Spruce wood and MDF panel, brush sanded with two grit sizes, namely P180 and P220. ...

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## MINIMIZAREA DURATEI DE PROCESARE LA FILTRAREA SUPRAFEIELOR ȘLEFUITE DIN LEMN MASIV CU UN FILTRU GAUSS ROBUST

L Gurău, M Irle, H Mansfield-Williams - Pro Ligno, 2012 - proligno.ro

Abstract: Roughness of a processed surface has to be filtered to remove form errors and waviness. The most common filter, the Gaussian filter, introduces distortions when used on some wood surfaces, whereas the Robust Gaussian Regression Filter (RGRF) does not. ...

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## Convergence of the robust Gaussian regression filter applied to sanded wood surfaces

L Gurau, H Mansfield-Williams, M Irle - Wood Science and Technology, 2014 - Springer

Abstract The quality of a sanded wood surface is represented by its roughness, which can be separated from the originally measured data by a procedure of filtering. Past experience has shown that the robust Gaussian regression filter (RGRF) is suitable for wood surfaces ...

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## Processing roughness of sanded beech surfaces

L Gurau, C Csiha, H Mansfield-Williams - *European Journal of Wood and ...*, 2015 - Springer

Abstract This paper examines the processing roughness of beech surfaces sanded with 13 grit sizes from P60 to P600 after the separation from wood anatomy and quantifies the biasing effect of wood anatomy when it is not removed. When the anatomy was removed ...

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## Comparative Researches on the Roughness of Sanded Wooden Surfaces with Wide Belt and Abrasive Brushes

MR Loredana, BL Anne-Marie - *Procedia Engineering*, 2015 - Elsevier

Abstract The paper presents comparative results of experimental researches on roughness parameters  $R_k$  and  $R_{pk}$  to sanding surfaces with wide belt and abrasive brush at the beech wood (*Fagus sylvatica* L.). The purpose of the research was to demonstrate that the ...

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## Efficiency of Sanding Belts for Beech and Oak Sanding

A Očkajová, M Kučerka, L Křišťák, I Ružiak, M Gaff - [BioResources](#), 2016 - [ojs.cnr.ncsu.edu](http://ojs.cnr.ncsu.edu)

Abstract The effects of wear on the performance of sanding belts were determined for European beech (*Fagus sylvatica* L.) and English oak (*Quercus robur*). These measurements are presented as a function of the defined sanding time of 480 min on a ...

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## Effect of species and grinding disc distance on the surface roughness parameters of medium density fiberboard

L Gurau, N Ayrilmis, JT Benthien, M Ohlmeyer... - *European Journal of ...* - Springer

Abstract Surface quality of medium density fiberboard (MDF), as a very important criterion for further finishing and utilization, was evaluated using a wide range of measuring parameters (instruments, filters, filtering cut-off length, measuring length, measuring resolution, ...

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